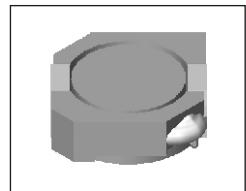


# SMT Power Inductor

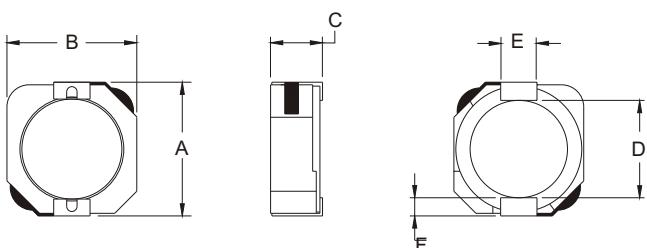
## SIL104R Type

### Features

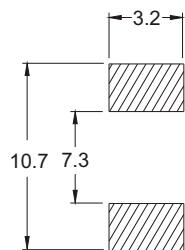
- RoHS compliant.
- Low profile (4.0mm max. height) SMD type.
- Magnetically shielded, suitable for high density mounting.
- Self-leads, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



### Mechanical Dimension:



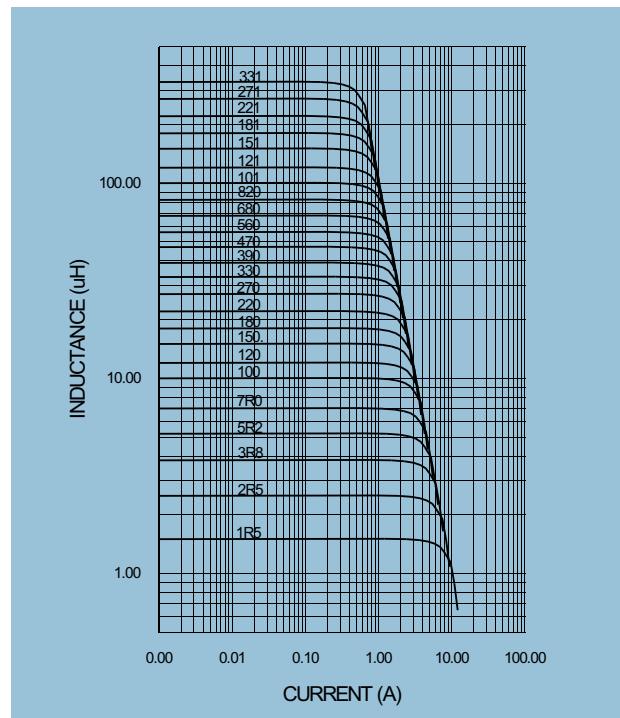
RECOMMENDED PAD PATTERNS



UNIT:mm/inch  
 A =  $10.1 \pm 0.3$  /  $0.398 \pm 0.012$   
 B =  $10.0 \pm 0.3$  /  $0.394 \pm 0.012$   
 C =  $3.8 \pm 0.2$  /  $0.150 \pm 0.008$   
 D =  $7.7 \pm 0.3$  /  $0.303 \pm 0.012$   
 E =  $3.0 \pm 0.1$  /  $0.118 \pm 0.004$   
 F =  $1.2 \pm 0.15$  /  $0.047 \pm 0.006$

### Electrical Characteristics: 25°C: 100KHz, 0.1V

PART NO.	L <sup>1</sup> ( $\mu$ H)	DCR ( $m\Omega$ ) MAX	Irated <sup>2</sup> (Adc)
SIL104R - 1R5	1.5	8.1	10.00
SIL104R - 2R5	2.5	10.0	7.50
SIL104R - 3R8	3.8	13.0	6.00
SIL104R - 5R2	5.2	22.0	5.50
SIL104R - 7R0	7.0	27.0	4.80
SIL104R - 100	10.0	35.0	4.40
SIL104R - 150	15.0	50.0	3.60
SIL104R - 220	22.0	73.0	2.90
SIL104R - 330	33.0	93.0	2.30
SIL104R - 470	47.0	128.0	2.10
SIL104R - 680	68.0	213.0	1.50
SIL104R - 101	100.0	304.0	1.35
SIL104R - 151	150.0	506.0	1.15
SIL104R - 221	220.0	756.0	0.92
SIL104R - 331	330.0	1090.0	0.70



1. Tolerance of inductance :  $\pm 30\%$ .
2. Irated is the DC current which cause the inductance drop less than 35% of its nominal inductance without current and the surface temperature of the part increase less than  $45^\circ\text{C}$ .
3. Operating temperature:  $-20^\circ\text{C}$  to  $105^\circ\text{C}$  (including self-temperature rise).



DELTA ELECTRONICS, INC.

(TAIWAN PLANT CPBG) 252, SAN YING ROAD, KUEISAN INDUSTRIAL ZONE, TAOYUAN SHIEN, 333, TAIWAN, R.O.C.  
 TEL: 886-3-3591968; FAX: 886-3-3591991  
<http://www.deltaww.com>